

**In the Claims**

The listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-11 (cancelled)

12. (new) Impeller for data acquisition in a flow, comprising blades (1) and a hub (2), wherein the impeller is made of a plastic material and is molded by trapping a spindle (3) and at least one magnet (4) in its hub (2).
13. (new) Impeller according to claim 12, wherein the impeller also traps an insert (5) to house the magnet (4).
14. (new) Impeller according to claim 13, wherein the insert (5) and the spindle (3) are fixed to each other.
15. (new) Impeller according to claim 14, wherein the insert (5) is crimped around the spindle (3).
16. (new) Impeller according to claim 15, wherein the cross section (7) of the spindle (3) is reduced at the crimping (6).
17. (new) Impeller according to claim 12, wherein the impeller comprises at least one pair of magnets (4) on each side of the spindle (3) that attract each other.
18. (new) Impeller according to claim 12, wherein the plastic material is a polyethercetone type thermoplastic resin.
19. (new) Impeller according to claim 12, wherein the magnet (4) is based on samarium cobalt.
20. (new) Impeller according to claim 12, wherein the spindle (3) is based on tungsten carbide.
21. (new) Impeller according to claim 13, wherein the insert (5) is based on aluminum.

22. (new) Data acquisition instrument in a flow, comprising at least one impeller (11) according to claim 12.